

1'-6"

7"-8" Bligs

1'-7"

1'-10"

5"

2'-10"

1'-4 1/2"

7 1/2"

2 3/4" CL.

10" Rod

2 3/4" CL.

2 3/4" CL.

#5 S4 @ 1'-0" CTS.

#5 S3 @ 1'-0" CTS.

CONST. JT.

SECTION THRU RAIL

6"

4 1/2"

4"

2 1/2"

4 1/2"

SECTION S-S

AT DAM IN OPEN JOINT

(THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)

1/2" EXP. JT. MAT'L HELD IN PLACE WITH GALVANIZED NAILS.

WHEN SLIP FORM IS USED.)

OPEN JT. IN RAIL @ BENT

CHAMFER 3/4"

3/4"

CHAMFER

CONST. JT.

CHAMFER 3/4"

3/4"

CHAMFER

ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS

BAR TYPES

Diagram 1: Corner bar with dimensions: 1'-0 1/4", 8/16", 1'-5 3/4", 1'-7 1/4", 2/4", 9/4", 2 3/4", 11 3/4", 7", 3 3/8", 1'-9", 1'-1 1/4", 1'-3", 1'-0 1/4", and 2'-8".

Diagram 2: Cross-section of a bar with dimensions: 6", 2'-6", 2'-6", 7", and 1 3/4" Rad.

Diagram 3: Detail view of a bar with dimensions: 1'-0 1/4", 1'-6", 1'-9", 1'-1 1/4", 1'-3", 1'-4", and 2'-8".

ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR ONE CORED SLAB SECTION

BAR	NUMBER	SIZE	TYPE	EXTERIOR UNIT LENGTH	EXTERIOR UNIT WEIGHT	INTERIOR UNIT LENGTH	INTERIOR UNIT WEIGHT
B1	4	# 4	STR	23'- 4"	62	23'- 7"	62
S1	8	# 4	3	4'- 3"	23	4'- 3"	23
S2	88	# 4	3	5'- 4"	314	5'- 4"	314
* S3	46	# 5	1	5'- 3"	252		
REINFORCING STEEL				LBS.	400		400
*EPOXY COATED REINFORCING STEEL				LBS.	252		252
5,000 P.S.I. CONCRETE				CU. YDS.	6.3		6.3
0.6" Ø L.R. STRANDS				No.	16		16

DEAD LOAD DEFLECTION AND CAMBER	
	3'-0" x 1'-9"
	0.6-Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	1" ↓
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	3/16" ↓
FINAL CAMBER	13/16" ↓
** INCLUDES FUTURE WEARING SURFACE	

BILL OF MATERIAL FOR CONCRETE BARRIER RAIL									
BAR	BARS PER SPAN			TOTAL NO.	SIZE	TYPE	LENGTH	WEIG	
	SPAN	A SPAN	B SPAN C						
* B2	28	28		56	# 5	STR	22'-2"	129#	
* S4	92	92		184	# 5	2	5'- 6"	105#	
* EPOXY COATED REINFORCING STEEL				= 2351 LBS.					
* CONCRETE A4 CONCRETE				= 18 CU.YDS.					
TOTAL LIN.FT. OF CONCRETE BARRIER RAIL				= 1818					

CORED SLABS REQUIRED			
	NUMBER	LENGTH	TOTAL LENG
EXTERIOR C.S.	4	45'-0"	180'-0"
INTERIOR C.S.	18	45'-0"	810'-0"
TOTAL	22		990'-0"

VERTICAL GROOVE/CONTRACTION JOINTS, 1/2" IN DEPTH SHALL BE TOoled IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A VERTICAL CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS
2			4			

STD. NO. PCS3

FIGURE 6 - 84 M

